

The largest study evaluating a protocol to prevent catheter-related infection involved 103 ICUs in Michigan and over 375,000 catheter days. The intervention consisted of five-evidence-based procedures that are strongly recommended by the CDC and include:

1. HAND WASHING (WHO technique)
2. FULL BARRIER PRECAUTIONS during insertion
3. CHLORHEXIDINE for skin disinfection
4. AVOIDANCE of the FEMORAL INSERTION SITE
5. REMOVAL OF CATHETERS when no longer indicated

Daily review of the indication(s) for central venous access:

- a) HYPOVOLEMIA
- b) HEMODYNAMIC INSTABILITY
- c) USE OF VASOPRESSOR(S)
- d) MANAGEMENT OF HYPONATRIEMIA
- e) ABSENCE OF PERIPHERAL VENOUS ACCESS SITES
- f) HEMODIALYSIS
- g) PARENTERAL NUTRITION
- h) CHEMOTHERAPY